## PATENT COOPERATION TREATY

From the  NTERNATIONAL SEARCHING AUTHORITY		
To: JANE MASSEY LICATA LICATA & TYRRELL P.C.	PCT	
66 E. MAIN STREET MARLTON, NJ 08053	WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY	
	(PCT Rule 43bis.1)	
	Date of mailing (day/month/year) 0 9 MAY 2005	
Applicant's or agent's file reference  FOR FURTHER ACTION See paragraph 2 below		
DRE-0156 International application No. International filing dat	e (day/month/year) Priority date (day/month/year)	
00 7 1 2004 (02 07 2	02 7 1 2002 (02 07 2002)	
PCT/US04/21382 02 July 2004 (02.07.2004) 03 July 2005 (02.07.2004) International Patent Classification (IPC) or both national classification and IPC		
IPC(7): C01B 31/02 and US C1.: 423/445R		
Applicant		
DREXEL UNIVERSITY		
1. This opinion contains indications relating to the following items:		
Box No. I Basis of the opinion		
Box No. II Priority		
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability		
Box No. IV Lack of unity of invention		
Box No. V  Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
Box No. VI Certain documents cited		
Box No. VII Certain defects in the international application		
Box No. VIII Certain observations on the international application		
2. FURTHER ACTION  If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.		
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.		
For further options, see Form PCT/ISA/220.		
3. For further details, see notes to Form PCT/ISA/220.		
Name and mailing address of the ISA/ US  Authorized officer		
Mail Stop PCT, Attn: ISA/US Commissioner for Patents	Stuart Hendrickson	
P.O. Box 1450 Telephone No. 571-272-1700		

Alexandria, Virginia 22313-1450
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Form PCT/ISA/237 (cover sheet) (January 2004)

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/21382

Box No. I Basis of this opinion		
1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.		
This opinion has been established on the basis of a translation from the original language into the following ianguage which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).		
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:		
a. type of material		
a sequence listing		
table(s) related to the sequence listing		
b. format of material		
in written format		
in computer readable form		
c. time of filing/furnishing		
contained in international application as filed.		
filed together with the international application in computer readable form.		
furnished subsequently to this Authority for the purposes of search.		
In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.		
4. Additional comments:		

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/21382

Box No. V Reasoned statement under Rule applicability; citations and expla	43 bis.1(a)(i) with regard to novelty, invernations supporting such statement	ntive step or industrial
1. Statement		
Novelty (N)	Claims 2,5	YES
<b>,</b> ,	Claims 1.3,4,6,7	NO
Inventive step (IS)	Claims 2,5	YES
Inventive step (IS)	Claims <u>1,3,4,6,7</u>	
		YES
Industrial applicability (IA)	Claims 1-7 Claims NONE	
	<u></u>	
2. Citations and explanations:		
Chima 1 2 4 6 7 look novely under PCT Article 3	le heating Ti carbide with halogen at 600 degrees	C to make carbon. No
Claims 2 and 5 meet the criteria set out in PCT A material or high temperature recited.	rticle 33(2)-(3), because the prior art does not tead	ch or fairly suggest the starting
Claims 1-7 meet the criteria set out in PCT Articl can be made or used in industry.	e 33(4), and thus have industrial applicability beca	use the subject matter claimed
It is also noted that applicants admit in the specifi	cation that carbon derived from carbides is well k	nown in the art.
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Form PCT/ISA/237 (Box No. V) (January 2004)